

# Product data sheet

Specifications



Motor circuit breaker, TeSys GV4,  
3P, 80A, Icu 50kA, thermal magnetic  
multifunction, UL489

GV4PB80N

## Main

Range of product	TeSys GV4
Range	TeSys Deca
Device short name	GV4PB
Product name	TeSys GV4
Product or component type	Motor circuit breaker
Device application	Motor protection
Trip unit technology	Thermal-magnetic Electronic

## Complementary

Poles description	3P
Utilisation category	Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1
Operating position	Any position
Breaking capacity	65 kA SCCR at 240 V AC 60 Hz conforming to UL 489 35 kA SCCR at 480Y/277 V AC 60 Hz conforming to UL 489 18 kA SCCR at 600Y/347 V AC 60 Hz conforming to UL 489 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Toggle
[In] rated current	80 A
Magnetic tripping current	1360 A
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2 600Y/347 V AC 60 Hz conforming to UL 489
[Ui] rated insulation voltage	800 V AC 50/60 Hz conforming to IEC 60947-2
[Ith] conventional free air thermal current	115 A conforming to IEC 60947-4-1
[Uiimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
Power dissipation per pole	4.6 W
Mechanical durability	40000 cycles

<b>Electrical durability</b>	14000 cycles for AC-3 at 440 V In/2 7000 cycles for AC-3 at 440 V In
<b>maximum operating rate</b>	25 cyc/h
<b>Rated duty</b>	Continuous conforming to IEC 60947-4-1
<b>Connections - terminals</b>	EverLink BTR screw connectors (top) 1 cable(s) 1.5...70 mm <sup>2</sup> - rigid EverLink BTR screw connectors (top) 1 cable(s) 1.5...50 mm <sup>2</sup> - flexible EverLink BTR screw connectors (bottom) 1 cable(s) 2.5...95 mm <sup>2</sup> - rigid EverLink BTR screw connectors (bottom) 1 cable(s) 2.5...70 mm <sup>2</sup> - flexible
<b>Tightening torque</b>	9 N.m for cable 16...95 mm <sup>2</sup> 5 N.m for cable 1.5...10 mm <sup>2</sup>
<b>Mechanical robustness</b>	Vibrations: +/- 1 mm 2...13.2 Hz conforming to IEC 60068-2-6 Vibrations: 0.7 gn 13.2...100 Hz conforming to IEC 60068-2-6 Shocks: 15 gn 11 ms conforming to IEC 60068-2-27
<b>Phase failure sensitivity</b>	Yes conforming to IEC 60947-4-1
<b>Height</b>	171 mm
<b>Width</b>	81 mm
<b>Depth</b>	116 mm
<b>Product weight</b>	1.45 kg
<b>Colour</b>	Grey (RAL 7016)
<b>Suitability for isolation</b>	Yes conforming to IEC 60947-1

## Environment

<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-4-1 UL 489 CSA C22.2 No 5
<b>Product certifications</b>	IEC UL CSA
<b>Climatic withstand</b>	conforming to IACS E10
<b>IK degree of protection</b>	IK07 conforming to IEC 62262
<b>Pollution degree</b>	3
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>Ambient air temperature for storage</b>	-50...85 °C
<b>Fire resistance</b>	960 °C conforming to IEC 60695-2-11
<b>Operating altitude</b>	5000 m
<b>Ambient air temperature for operation</b>	-25...70 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	17.000 cm
<b>Package 1 Width</b>	22.600 cm
<b>Package 1 Length</b>	11.000 cm
<b>Package 1 Weight</b>	1.714 kg

## Contractual warranty

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**Warranty**

18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint **90**

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Compliant with Exemptions**

SCIP Number **1b259a2c-3a3c-401a-acdd-f0837efd4018**

REACH Regulation [REACH Declaration](#)

Halogen-free status **Halogen free plastic parts product**

PVC free **Yes**

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back **No**

WEEE Label The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Offer Marketing Illustration

**Product benefits / Features**

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## Offer Marketing Illustration

## Product benefits / Features



**TeSys Deca Motor Circuit Breakers**

**Technical Benefits**

- Combines a circuit breaker and overload relay in a single device.
- Gives great detection accuracy, as well as alarming and advanced protections for refs.
- Magnetic, electronic thermal-magnetic, or electronic thermal magnetic versions with advanced protection.
- Patented EverLink creep-compensating technology.
- Spring-based system ensures a long lasting connection.
- Electronic core for high-accuracy, wide settings, dual motor class 10/20.

## Offer Marketing Illustration

## Product benefits / Features

## TeSys Deca

### Motor Circuit Breakers

#### Increase safety



Featuring EverLink technology, double rotary contact system, and Reflex tripping mechanism to ensure your operations run smoothly and securely.

#### Improve efficiency



With a compact design, hassle-free installation with one-click spring terminal accessories, while easy monitoring with visible auxiliaries.



#### Save time



Simple to specify, install and use for all applications and easy access to facilitate maintenance on site.

## Technical Illustration

## Assembly's dimensions

